AUTHOR

TSETLIN, B.L., YaNOVA, L.P., SIBIRSKAYA, G.K.,

20-11-40/64

REBINDER, P.A., Member of the Academy.

TITLE

The properties of plastic masses filled with graphite and

the effect produced by high filling.

(Svoystva napolnennykh grafitom plastmass i effekt vy-

okogo napolneniya - Russian)

PERIODICAL

Doklady akademii nauk SSSR. 1957, Vol 114, Nr 1, pp 146-148

(U.S.S.R.)

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ABSTRACT

The properties of various materials can, as is known, be considerably improved by the introduction of active fillers. In the present case the effect produced by graphite as an active filler was investigated in connection with a number of systems. The mechanic strength, heat conductivity, and heat storage were investigated. The results obtained are shown by two drawings. Also the course of the lines showing the heat-storing capacity is understandable, which proves that at high temperatures the strengthening effect is more

pronounced. Technological research work carried out on the basis of this paper proved the correctness of the results obtained

by the investigations. (with 2 drawings)

CARD 1/2

CIA-RDP86-00513R001550420006-8 "APPROVED FOR RELEASE: 03/14/2001

20-1-40/64 The properties of plastic masses filled with graphite and the effect produced by high filling.

ASSOCIATION: not given.

PRESENTED BY: -

SUBMITTED:

AVAILABLE: Library of Congress.

CARD 2/2

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sov/81-59-20-73660

Translation from: Referativnyy zhurnal, Khimiya, 1959, Nr 20, p 548 (USSR)

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AUTHORS:

Tsetlin, B.L., Sibirskaya, G.K.

TITLE:

The Effect of Ionizing Radiation on the Thermal-Mechanical Properties

of Polyethylene 1

PERIODICAL:

V sb.: Deystviye ioniziruyushchikh izlucheniy na neorgan. i organ.

sistemy. Moscow, AS USSR, 1958, pp 344 - 353

ABSTRACT:

Samples of polyethylene (I) of M-60 grade with a thickness of 1.2 mm, 50 and 30 mm in diameter, were subjected to irradiation? in the air by electrons (dose intensity 1.7 x 10^{17} -1.1 x 10^{19} ev/cm³sec, integral doses 3.0 x 10^{20} -1.6 x 10^{23} ev/cm³sec) and by X-rays (dose intensity 1.2 x 10^{16} ev/cm³sec; integral doses $\sim 10^{21}$ ev/cm³). The curves of the dependence of the value of uniaxial compression and extension of the irradiated samples on the temperature have been obtained. At temperatures below T (melt) of non-irradiated I the shape of the curves did not change after irradiation. Above this temperature the irradiated sample passes into the highly-elastic state with a final module value

Card 1/2

proportional to the dose. The efficiency of the action of radiation on

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The Effect of Ionizing Radiation on the Thermal-Mechanical Properties of Poly-

the thermal-mechanical properties of I is determined by the value of the integral dose. The irradiation of I in vacuum has shown that oxygen at the given dose intensities does not affect the rate of radiation cross-linking of I, because it has no time for diffusing into the sample volume. With an increase in the dose the temperature increases, at which the sample of I breaks under the action of a

A. Litmanovich

Card 2/2

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SOV/81-60-2-7085

Translation from: Referativnyy zhurnal. Khimiya, 1960, Nr 2, pp 546 - 547 (USSR)

AUTHORS:

Tsetlin, B.L., Yanova, L.P., Sibirskaya, G.K., Korbut, V.M.

TITLE:

The Effect of Ionizing Radiation on the Mechanical Properties of Polyvinylchloride and Its Masticated Products

PERIODICAL:

V sb.: Deystviye ioniziruyushchik izlucheniy na neorgan, i organ.

sistemy. Moscow, AS SSSR, 1958, pp 354 - 361

ABSTRACT:

The effect was studied of highly-intensive X-ray radiation on the changes in the mechanical properties of industrial vinyplast (V) sheet and masticated (M) products on the base of polyvinylchloride containing dibutylphthalate in the quantity of 10 - 60 weight %. A dismountable X-ray tube with a cylindrical anode of the TRTs type serves as radiation source. In the case of the irradiation of V the doese intensity was $6^{\circ}10^{16}$ ev/cm³ sec and the duration of the irradiation from 1 to 50 hours, and in the case of irradiation of M 1.8·10¹⁷ ev/cm³ sec and 5 hours, respectively. Samples for thermomechanical tests were prepared in the

Card 1/2

form of disks of 7 mm in diameter and with a thickness of 1 mm, the specific load for V was 10.2 kg/cm² and for M 0.8 kg/cm². The following

SIMIRSKAYA, G. K.

S/844/62/000/000/050/129
D287/D307

AUTHORS: Topchiyev, A. V., Vereshchinskiy, I. V.m Glazunov, P. Ya.,
Glushnev, V. Ye. Polik, L. S., Ryabchikova, G. G., Sibirskaya, G. K., Timofeyev, V. D. and Chernyak, N. Ya.

TITLE: Thermal cracking of hydrocarbons induced by irradiation

SOURCE: Trudy II Vessoyuznogo soveshchaniya po radiatsionnoy khimii. Ed. by L. S. Folak. Moscow, Izd-vo an SSSR, 1962,
304-307

TEXT: The effect of irradiation on thermal cracking of hoptane at
thermal cracking temperatures was studied. The experiments were
thermal cracking irradiation dosages of 7 x 1015 ev/sec/1 cm heptanethe gas, using irradiation dosages of 7 x 1015 ev/sec/1 cm heptanethe gas, using irradiation dosages of 7 x 1015 ev/sec/1 cm heptanethe gas, using irradiation dosages of 600-60000 was influenced by the
and ordinary thermal cracking at 100 - 60000 was influenced by the
and ordinary thermal cracking at sill ratio and those obbetween the yield of products obtained by radiation and those obbetween the yield of products obtained by radiation and those obbetween the yield of products obtained by radiation and radiatained by ordinary thermal cracking was in a 11 ratio and radia-

Thermal cracking of ... S/844/62/000/000/050/129

tion-induced processes could therefore be carried out at much lower temperatures (150 - 220°C) than ordinary thermal cracking processes (550 - 600°C). Activation energy requirements also compared favorably (21 kcal/mole as against ~60 kcal/mole for thermal cracking). The yield of gaseous and liquid unsacurated compounds increased sharply with temperature and reached ~15,000 mol/100 ev at ~600°C. At temperatures ~800°C the radiation yield became lower. The yield of unsaturated compounds increased sharply with temperature and reached 80% (as against 50 - 55% during ordinary thermal cracking). Optimum conditions for the above process were high dosage irradiation and short contact times. There are 3 figures.

ASSOCIATION: Inutitut neftekhimicheskogo sinteza, AN SSSR (Institute of Petrochemical Synthesis, AS USSR); Institut fizicheskoy khimii, AN SSSR (Institute of Physical Chemistry, AS USSR)

5/844/62/000/000/051/129 D287/D307

Spitsyn, V. I., Vereshchinskiy, I. V., Glazunov, P. Ya., AUTHORS:

第四条数据 1950年 1950年

Ryabchikova, G. G. and Sibirskaya, G. K.

High-temperature radiolysis of propane TITLE:

Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khi-SUBJECT:

mii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1962,

300-311

TEXT: Preliminary results are given of the effects of temperature on the ridiolysis of propane-ethane mixtures. The purified propanethane mixture, prepared in the Institut ispol'zovaniya gazov AN USSR (Institute for the Utilization of Gases, AS UkrSSR), freed of CH₄, olefins and C₄ hydrocarbons, and containing 98% propane at normal pressure, was irradiated with an optimum dosage of a few units $x = 10^{15}$ eV/cm³sec, the temperature being maintained with an accuracy of + 4°C. The radiolysis products (up to C6 hydrocarbons) were analyzed in a chromothermograph XT-2 M (KhT-2N); the weight of Jard 1/2

high-temp rature radiolysis ...

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the samples was 0.25 - 1 mi. The yields were found to increase slightly at 450°C and rapidly thereafter. Only temperatures of up to boood were investigated as thermal cracking occurs at higher temperatures ()% at 550°C, 46% at 000°C). Principal products obbeined during readolysis were: Ho, ethylene and propylene, but no Mi, at 500°C; the CH, content increased rapidly at higher temperatares. It 000^{9} C the following reaction products were obtained: 22% H_{2} , 29.5% SH_{4} , 40.5% $C_{2}H_{4}$ + $C_{5}H_{6}$ which is approximately the same the products obtained during thermal cracking at 550°C. Investigations on the relationship between the percentage composition of the composition and the time of irradiation at 500°C showed that the products are: H. (180 mol/100 ev), ethylene (160 mol/100 ev) and propylene (135 mol/100 ev). The activation energy for the formation of hydrogen, ethylene and propylene was calculated to be 16 kcal/ mole, i.e. it is approximately equal to that required for thermal cracking. The regiolysis of propane-ethane mixtures proceeds by a chain reaction. There are 4 figures. AUGOCIATION: Institut fizicheskoy khimii, AN U. R (Institute of Gard 2/2 Physical Chemistry, AS USSR)

RYARCHIKOVA, G.G.; SIBIRSKAYA, G.K.; GLAZUNOV, P.Ya.; GRACHEV, A.I.

Semiautomatic proportioning device for gas chromatography. Zav.lab. 29 no.2:243-244 163. (MIRA 16:5)

1. Institut fizicheskoy khimii AN SSSR.
(Gas chromatography) (Proportioning equipment)

RYABCHIKOVA, G.G.; SIBIRSKAYA, G.K.; GLAZUNOV, P.Ya.; GRACHEV, A.I.

Apparatus for selecting gas samples during chromatographic analysis. Zav.lab. 29 no.2:244 63. (MIRA 16:5)

1. Institut fizicheskoy khimii AN SSSR. (Gas chromatography)

PIKAYEV, A.K.; SIBIRSKAYA, G.K.; RYABCHIKOVA, G.G.; GLAZUNOV, P.Ya.

Mechanism of hydrogen peroxide formation in a 0,4 M aqueous solution of sulfuric acid at high dose rate of absorption. Kin. i kat. 6 no.1:41-47 Ja-F '65. (MIRA 18:6)

1. Institut fizicheskoy khimii AN SSSR.

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SKRIPIL', V.I.; NEDOZH GIN, M.S.; SIBIRSKAYA, N.A.

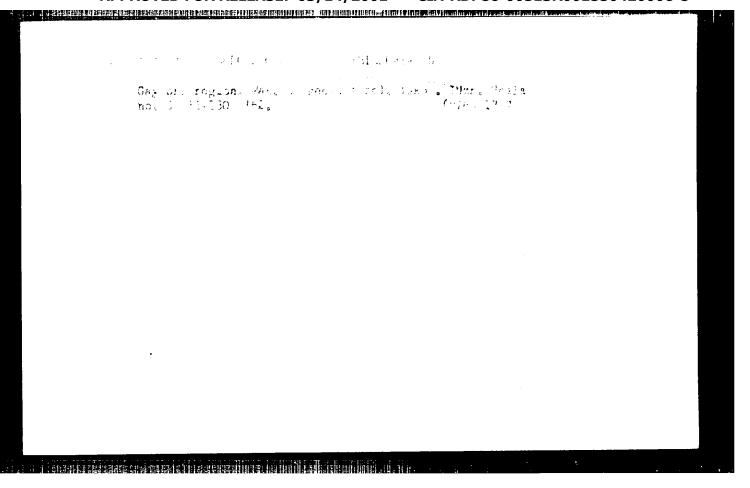
Basic geological characteristics of the Gay copper pyrite deposit in the Southern Urals. Mat. po geol. i pol. iskop.

IUzh. Urala no.2:81-93 '60.

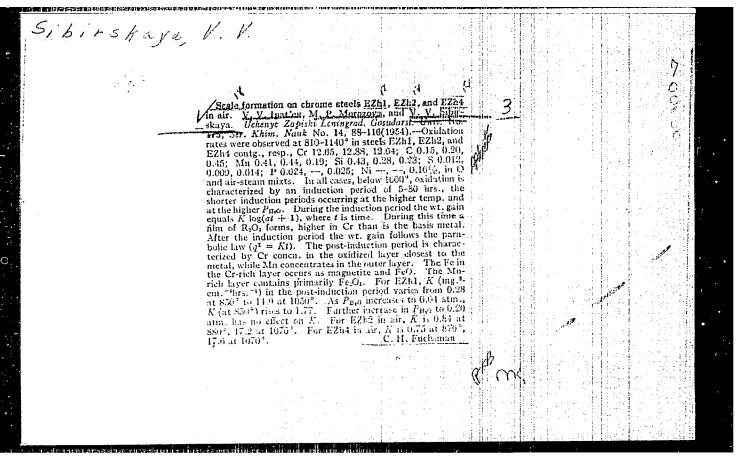
(Ural Mountains—Geology)

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Dissertation: "Chale Formation on Inon-Chronium Alloys at High Te Oteam Atmos ere." and Chem Jei, Leningrad State 1, Leningrad, I Zhurnalkhimiya, hordow, F Apr 54)	emperat 1953.	ures in a (Referetivnyy	
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Buch 2

Skorost' okalinoobrazovaniya na metallakh i splavakh (Rate of Scale Formation in Metals and Alloys) Pt. 2. [Leningrad] 1957. 238 p. [Series]: (Its: Uchenyye zapiski, no. 227) [Series]: (Leningrad. Universitet. Khimicheskiy fakultet. Uchenyye zapiski. Seriya khimicheskikh nauk, vyp. 17) 2,150 copies printed.

Resp. Ed.: Tikhomirov, V. I.; Ed.: Shemeleva, Ye. V.; Tech. Ed.: Vodolagina, S. D.

PURPOSE: This collection of articles is intended for scientific workers, engineers and technicians interested in the problem of scale resistance of metals and alloys as well as in the more general problem of kinetics of heterogeneous processes.

COVERAGE: The collection is a continuation of a similar work published in 1954 by the same institution (Uchenyye zapiski IGU, No. 175, 1954). The articles describe experimental and theoretical work on the kinetics of oxidation of iron, manganese and nickel, and of alloys of iron and chromium, nickel and manganese, in various gaseous media. Individual articles are briefly reviewed under Table of Contents, below. No personalities are mentioned. in th

Card 1/1

Rate of Scale Formation in Metals and Alloys 545 TABLE OF CONTENTS: Introduction Ipat'yev, V. V. (Deceased) and Sibirskaya, V. V. 3 Kinetics of Scale Formation on Iron-chromium Alloys at Elevated Temperatures in Water Vapor. Structure and Composition of Scale The authors try to establish a connection between the rate of oxidation 5 of various iron-chromium alloys and the structure of the scale. Five grades of steel, containing 3, 6, 13, 16 and 30 percent chromium, were studied. The structure of the scale was studied with the aid of the micrographic method in conjunction with chemical and X-ray analyses. The temperature regime varied from 500° to 1300°C. Results of experiments with each type of steel are summarized at the end of the article. There are 21 references, 10 of which are Soviet, 8 English, and 3 German. Ipat'yev, V. V. (Deceased), Ivanova, M. A. and Milyuts, G. B. Scale Formation on 25 Percent Nickel Steel in Air Containing Water Vapor 48 Card 2/16

SOV/137-58-9-19479

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 191 (USSR)

AUTHORS: Ipat'yev, V.V., Sibirskaya, V.V.

TITLE: On the Kinetics of Scale Formation on Alloys of Iron With

Chromium at High Temperatures in an Atmosphere of Water Vapor. Structure and Composition of the Scale Formed (K kinetike okalinoobrazovaniya na splavakh zheleza s khromom pri vysokikh temperaturakh v atmosfere vodyanogo para.

Struktura i sostav obrazuyushcheysya okaliny)

PERIODICAL: Uch. zap. LGU, 1957, Nr 227, pp 5-47

ABSTRACT: The rate of oxidation (RO) of Fe-Cr alloys containing 3, 6,

13, 16, and 30% of Cr in an atmosphere of water vapor in the $500\text{--}1300^\circ\text{C}$ range was investigated. The phase and chemical composition of the scale formed was studied. It is shown that the relationship of the constant of RO to the temperature is expressed by the equation: $\log_{10}\text{K}$ =E/4.575T +B, where B is a constant, T is the absolute temperature and E is the apparent activation energy of the process. In the steady-state stage of the process of oxidation the relationship of the gain in weight

Card 1/2 of the specimen to time is satisfactorily described by a

SOV/137-58-9-19479

On the Kinetics of Scale Formation on Alloys of Iron (cont.)

parabolic equation. It is observed that with an increase of Cr content in the alloy RO decreases; the effect of Cr as an alloying additive on the RO of the Fe-Cr alloy decreases with an increase of temperature, with the exception of alloys with 30% Cr. It's shown that in alloys with 3, 6, and 13% Cr. in the abovestated conditions, the scale consists of three layers: An outer layer of Fe₃O₄, a middle layer of FeO and, an inner spinel layer (FeO + FeO·Cr₂O₃), wherein during oxidation at constant temperature the ratio of the thickness of the lavers in the scale remains the same; the relative thickness of FeO decreases with the decrease of temperature. Micrographic and X-ray investigations and the chemical analysis of the scale of alloys with 3, 6, and 13% Cr showed that the outer layers of Fe_3O_4 and FeO scale do not contain any Cr, while the inner one consists of (FeO+FeO-Cr2O3); in the alloy with 16% Cr a certain amount of Cr is always present in the outer $\mathrm{Fe_3O_4}$ layer; in the alloy with 30% Cr the scale has one layer which is close to Cr_2O_3 in composition. It is shown that with an increase of the Cr content from 3 to 6 and 13% the relative thickness of the layer of FeO, containing no spinel, decreases until its complete disappearance at 16% of Cr in the alloy. It was discovered that during the oxidation of the alloy with 30% Cr at $< 800^{\circ}$ temperatures, a selective oxidation of Cr takes place. Bibliography: 21 references. 1. Chromium-iron alloys--Scale 2. Water vapors--Metallurgical effects 3. Porrosion--Structural analysis 4. Corrosion--Test results

73-3-5-17/39

AUTHORS:

Grinberg, A. A., Gil'dengershel', Eh. I., Sillislage, V. V.

TITLE:

II.On the Effect of Anisac di in the Outer Sphere Upon the Nature of Substitution Within the Inner Sphere of Complex Compounds (11.0 vligania anionov vneshney stery na kharakter and same enight vo vnetrenney

sfere kompleksnykh soyedineniy)

PERIODICAL:

Zhurnal Neorganicheskoy Khimii, 1950, Vol 3, Hr 5,

pp 1162 - 1165 (USSR)

ABSTRACT:

The interaction between the isomeric diaminus of tetravalent platinum and ammonia in the presence of sulfale-and phosphate ions was investigated. The results showed that in the presence of 50_A^{2-} and 90_A^{3-} different products were obtained. Upon

sence of SO₄²⁻ and PO₄³⁻ different products were obtained.Upon the action of ammonia upon (Pt NH₃)₅Cl) ⁵⁺ hydromycent-amine forms in the presence of SO₄²⁻. In the presence of

Card 1/2

 ${\rm FO_4^{\,\, 3^{-}}}$ chloropentamine forms. By means of these emperiments,

74-3-5-17/55

II.On the Effect of Amions Within the Outer Sphere Upon the Nature of Substitution Within the Inner Sphere of Complex Compounds

> it is proved that the anions 50_4^{-2-} and $P0_4^{-3-}$ direct the reaction into the inner sphere. . $\operatorname{Cr0}_4^{-2-}$ also has the same effect u_{μ} on the above-mentioned ammonia-cis or-trans [(Pt NH3)5cl] 3+system. From the obtained results, it can be seen that in the presence of ${\rm SO_4}{ ext{-ions}}$ and ${\rm CrO_4}{ ext{-ions}}$ the substitution process within the inner sphere profound. The last chlorine atom is displaced by hydronide. The results showed that the amions within the outer sphere of a complex can cause a certain loosening in the anions of the inner sphere of a complex. There are 8 raferences, 7 of which are boviet. May 16,1957

SUBMITTED: AVAILABLE: Card 2/2

Library of Congress

1. Complex compounds -- Cubstitution reactions -- Records of anima

GalandaG, A.A.; GIL'DMGG B'LL', Kh.I.; SIBIASKAYA, V.V. Mixed methylamine-aumonia platinum pentam in and its acidic properties. Zhur. neorg. Mikh. 6 no.1:90-94 '61. (MINA 14:2) (Platinum compounds)

SIBIRSKIY, A.

These workers are famous for their communist work. NTO 4 no.10: 12-13 0 '62. (MIRA 15:9)

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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420006-8"

SIBIRSKIY K.S.

FD-1184

USSR/Mathematics - Olympiad

Card 1/1

Pub. 118-25/30

Author

: Itskovich, I. A., and Sibirskiy, K. S.

नार । १६६ राज्यस्य न्यान्तरस्य । वदा । उद्यवस्य स्वतास्य स्वतास्य स्वतास्य स्वतास्य स्वतास्य स्वतास्य स्वतास्य

Title

: School mathematical olympiad in the city of Kishinev

Periodical

: Usp. mat. nauk, 9, No 3(61), 263-265, Jul-Sep 1954

Abstract

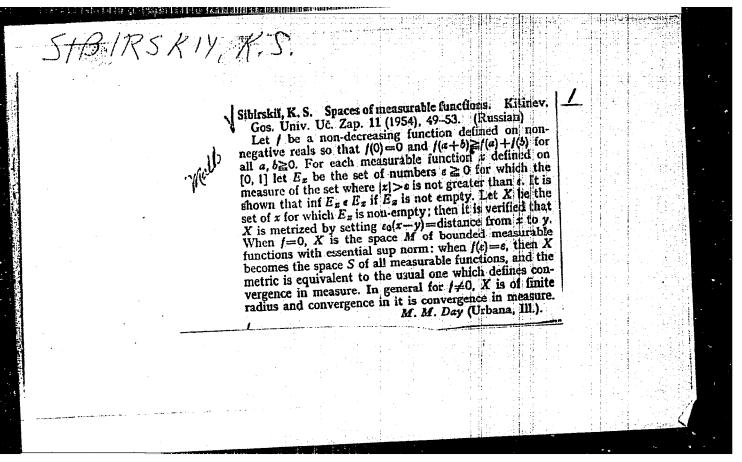
: Beginning in the autumn of 1948, a school circle has been active in the physico-mathematical faculty of Kishinev State University; in this circle students of the senior classes in the city schools have heard lectures on mathematics, physics, astronomy, mechanics, and history of science. In the 1952/1953 academic year the students heard reports by: Prof. V. I. Kostin, Docent V. A. Andrunakiyevich, Docent A. S. Bolotin, Docent I. A. Itskovich, Aspirant K. S. Sibirskiy, senior instructor S. A. Freydkin. School olympiads have been held in 1949, 1950, 1952, and 1953. A list of problems posed for the

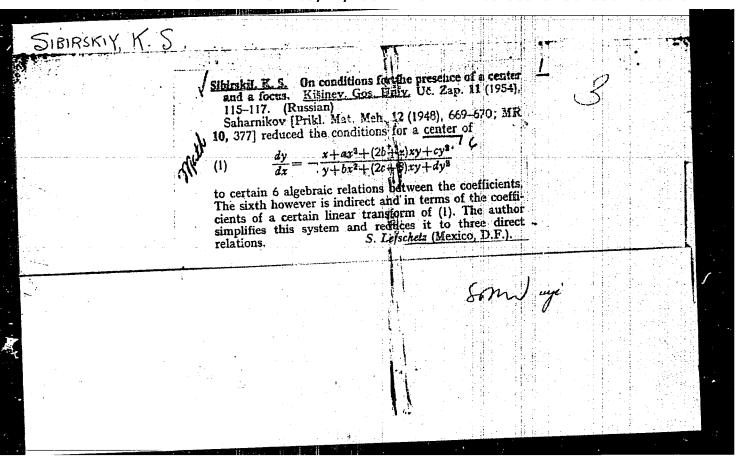
students is given.

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	27-34, 1955; Ref. Zb. Makb. no. 11, 1956, Rev. 7188. An equation is examined of the form:	-5		
	dy/dx = -Y(x,y)/X(x,y)	[1]		
	in which X(x, y) and Y(x, y) are functions, analytical in	the vicinity		
	a . It is a sinia the series expansion of which	S COOK-		
•	mences with terms not below the first order. It is assu- the characteristic equation			
	Q_n (cos φ , sin φ) cos $\varphi + P_n$ (cos φ , sin φ)sin	n ¢ 0 [2]		
	has no real roots. The following proposition is proved:			
	In order that the field of the linear elements of Eq. Li.] shall be		
	symmetrical with respect to the straight line	化二氯基环电流基基 医二氯甲		
	πείn φ y cos φ 0 0 φ	(3)		
	it is necessary and sufficient (and for the presence of Eq. [1], sufficient) that the following identity shall be			
	$X_1^{(1)}(x_1,y_1,\varphi)Y_1^{(1)}(x_1,y_1,\varphi) = X_1^{(1)}(x_1,y_1,\varphi), Y_2^{(1)}(x_1,y_1,\varphi)$	_{1,} γ ₁ φ) [4] /2		
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16.6500

Sibirskiy, K. S.

AUTHOR: TITLE:

On the question about the solution of some systems of

trigonometrical equations

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 11, 1961, 50, abstract 11B252. (Uch. zap. Kishinevsk. un-ta, 1960, 54,

21 - 27)

TEXT:

Considered is the system of equations $a_1 \sin k_1 \varphi + b_1 \cos k_1 \varphi = 0$,

 $a_2\sin k_2 \varphi + b_3\cos k_2 \varphi = 0,$

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. $a_n \sin k_n \phi + b_n \cos k_n \phi = 0$,

a, b, a, b, b, being real numbers such that

 $\prod_{r=1}^{n} (a_{r}^{2} + b_{r}^{2}) \neq 0, k_{1}, k_{2}, ..., k_{n} -$

are natural numbers, and ϕ is a real variable. Necessary and sufficient conditions for the compatibility of this system and a method for the determination of the solutions are given. Abstracter's note: Complete translation.]

Card 1/1

SIBIRSKIY, K.S.

Uniform approximation of points of dynamically limiting sets and the motions in them. Dokl. AN SSSR 146 no.2:307-309 S '62. (MIRA 15:9)

1. Institut fiziki i matematiki AN Moldavskoy SSR. Predstavleno akademikom P.S. Aleksandrovym. (Aggregates)

SIBIRSKIY, K.S.

Uniform approximation of points and the characteristics of motions in dynamically limiting sets. Izv. AN Mold. SSR no.1:38-48 '63.

Centers with symmetry of the field of directions of a differential equation. Izv. AN Mold. SSR no.1:79-83 '63. (MIRA 18:3)

SIBIRSKIY, K.S.

Invariants of linear representations of a group of plane rotations and the problem of the center. Dokl. AN SSSR 151 no.3:497-500 Jl 163. (MIRA 16:9)

1. Institut fiziki i matematiki AN Moldavskoy SSR. Predstavleno akademikom I.G.Petrovskim.
(Invariants) (Groups of points)

L 52513-65 EWT(d) Pg-4 IJP(c) ACCESSION NR: AP5012018	UR/03	76/65/001/	001/0053/0	066	
AUTHOR: Sibirs civ, K. S.			19		
TITLE: The number of limit cycles in a neighb	orhood of a s	ingular po	int B		
SOURCE: Differentsial'nyye uravneniya, v. 1,					
TOPIC TAGS: differential equation, stability					
ABSTRACT: Consider the system					
$-\frac{dx}{dl} = b_{10}x + b_{01}y + \sum_{l+1 \in A'} b_{jl}x^{l}y^{l},$		(1)			
$\frac{dy}{dt} = c_{10}x + c_{01}y + \sum_{l+1 \in A'} c_{il} x^l y^l,$					16, 41 • 1 • 1
where A' is a finite set of distinct positive are nonnegative integers, b _{jl} , c _{jl} are real n variables, under the assumption that the char	manage of arms	y v.y.	l, j and are real		
Card 1/2					

and the state of t	A Salt of comparison		
L 52513-65 ACCESSION NR: AP5012018	and the second s		
AGUESSION NAT APPOILUTU	$b_{10} - \Lambda - b_{01}$	(2)	
:	$\begin{vmatrix} b_{10} - \Lambda & -b_{01} \\ c_{10} & c_{01} - \Lambda \end{vmatrix} = 0$		
		mlicity of order k for	
has imaginary roots. After	defining the notion of cy	sign O of the phase	40
(in the set of coefficients plane (XOY), and letting N(satisfying (2)) by the way	er of cyclicity which	can be
plane (XOY), and letting N(, had by O for points \(\sigma \) sat	isfving (2), the author pr	oves that if A' = {3}.	then
	manuscription of B. M.	Paretvagin (DAN 3330)	- C-1-4-4-5
N(A') = 5, correcting an er No. 1, 1957, 29-32) and (Uc	henyve zapiski Smolenskogo	ped. in-ta, vyp. 10,	1962,
67-88). Orig. art. has: 6	6 formulas.		
		- cop (Tretitute of Ma	thematics
ASSOCIATION: Institut mate	ematiki s VIs AN Moldavsko	y San (Insolution of 1=	
s VIs AN Moldavian SSR)			
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Card 2/2			一种规划多 位
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SIMIPSKIT, 7....

Mumber of limit cycles arising from a focus or center type singular point. Bohl. AN SSSR 161 no.2:304-307 Mr 165.

(MIRA 18:4)

1. Institut matematiki s vychislitel'nym tsentrom AN Moldavskoy SSR. Submitted October 13, 1964.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420006-8"

ANDRUKAKIYEVICH, V.A., akademik, at . ref., Cohebbea, I Taly alktor fiz.-matom. nauk, red., BELOU.XV. V.D., kand. fiz.-matem. nauk, red., SIBIRCKII, K.V., kand. fiz. matem. nauk, red., AMD-PLEVA, L., res.

[colleg in algebra and mathematical arm yant] Issletoventua po migebra i matematichené ma annieze. Kieninet, kartia moldovenimeka, 1965. 196 p. – MIRA 1880):

i. skaleniya naik Moldavskoy dia Factatut matematiki s zgrhiositelinya teentros.

LUNKEVICH, V.A.; SIBIRSKIY, K.S.

Conditions of the center in the case of homogeneous nonlinearities of the third degree. Dif. urav. 1 no.11:1482-1487 N '65.

(MERA 18:12)

1. Institut matematiki s Vychislitel nym tsentrom AN Moldavskoy SSR i Kishinevskiy politekhnicheskiy institut.

SIBIRTSEV, A.I.

Grinding grain with high moisture content on the RDB-3000 (MIRA 11:6) hammer mill. Spirt. prom. 24 no.3:30-31 '58. (MIRA 11:6) (Grain milling)

SIBIRTSEV. A.I.

Intensifying purification in triple-column beer rectification units. Spirt. prom. 24 no.5:34 '58. (MIRA 11:9) (Distilling industries)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420006-8"

AUTHOR:

Sibirtsev, A.I.

SOV/71-59-2-12/26

TITLE:

Repeated Utilization of Water During Production (Mnogokratnoye

ispol'zovaniye vody v proizvodstve)

(\$455年) (1775年) 1875年) 1875年 1875年 1875年 1875年 1877年 1875年 1875年

PERIODICAL:

Spirtovaya promyshlennost', 1959, Nr 2, p 34 (USSR)

ABSTRACT:

Distilleries are great consumers of water. In places where water is scarce, the question of using water as sparingly as possible, is to some plants of great interest. The Khabarovskiy spirtovoy zavod (Alcohol Plant in Khabarovsk) has designed an additional heat exchanger, consisting of a copper tube covering a surface of 50 m² immersed in a water reservoir as shown on the diagram. The cooling water which has been used for various purposes in the plant, is directed to this heat exchanger where it is used again for cooling the saccharified mass entering the copper pipe at 57°C. The water in the reservoir varies in temperature; entering at the bottom at 20°C, it heats up to 42°C and is then drawn off for hydraulic removal of ashes. Half way up the reservoir, the water has a temperature of 23°C, at which point it is drawn off for soak-

Card 1/2

SIBIRTSEV, A.I.

Operational experience of the Khabarovsk Alcohol Plant with the continuous cooking of raw materials. Spirt.prom. 25 no.1:43-44 '59. (MIRA 12:2) (Khabarovsk--Distilling industries)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420006-8"

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	>>terinarila 41 no∙i	3\$73 79 er tho.	(MIR	13:4)	

SIBIRTSEV, G.E., zasluzhennyy vrach RSFSR; BEL'SKaYa, T.G.; LAVROVA, K.V.;
YAHOVICH, T.D., professor, direktor; KARPOV, S.P., professor, chlen-korrespondent Akademii meditsinskih nauk SSSR, nauchnyy rukovoditel' Tomskogo instituta vaktsin i syvorotok.

t kirāgakatājang tapiti karatas i am itaza enhasi itirātelikāli litilom, in elimiti litini inski tirat ir marti martina im attiration ir ita

Use of specific bacteriophage in diphtheria therapy. Pediatriia no.2:22-23 Mr-Ap '53. (MLRA 6:5)

1. Tomskiy institut vaktsin i syvorotok. 2. Akademiya meditsinskikh nauk SSSR (for Karpov). (Diphtheria) (Bacteriophage--Therapeutic use)

SIBIRTSEV, N.V., zasluzhennyy vrach RSFSR

Reduction of mortality from acute surgical diseases in Volo

等。1. 1 计控制系统 化聚烷 (1925年) 1925年 (1925年) 1925年 (1115年) 1935年 (1115年) (1115年) (1115年) (1115年) (1115年) (1115年) (1115年) (1115年) (111

Reduction of mortality from acute surgical diseases in Vologda Province. Zdrav. Ros. Feder. 4 no. 10:20-23 0 160.

(MIRA 13:10)

1. Glavnyy khirurg Vologodskogo oblzdravotdela. (VOLOGDA PROVINCE—OPERATIONS, SURGICAL) (ABDOMEN—DISEASES)

SIBIRTSEV, N.V.

Seventieth birthday of Aleksandr Pavlovich TSvetkov, honored surgeon of the R.S.F.R. Vest.khir. no.7:141-142 '61.

(MIRA 15:1)

(TSVETKOV, ALEKSANDR PAVIOVICH, 1890-)

SIBIRTSEV, P.

Simplify the issuing of credit and the accounting for loans for private housing construction. Fin. SSSR 21 no.7: 70-74 J1 160. (MIRA 13:7)

1. Nachal'nik otdela Cherkasskoy oblastnoy kontory Stroybanka. (Cherkassy Province-Banks and banking-Accounting)
(Cherkassy Province-Housing-Finance)

STAROSKOL'SKIY, Aleksey Alekseyevich; KRASOVSKAYA, Yekaterina Nikolayevna; SIBIRTSEV, S.L., retsenzent; GUSEVA, Ye.M., redaktor; MEDVEDEVA, L.A., tekhnicheskiy redaktor

[Dyeing and finishing of textile and haberdashery goods] Krashenie i otdelka tekstilino-galantereinykh izdelii. Moskva, Gos. nauchno-tekhn. izd-vo M-va legkoi promyshl. SSSR, 1956. 187 p.

(MIRA 10:5)

(Dyes and dyeing) (Textile industry)

ARKHIPOVA, T.N., starshiy nauchnyy sotrudnik; KRYUKOVA, A.S.; SIBIRTSEV, S.L.; LEZZHOVA, L.V.

THE RESERVE OF THE PROPERTY OF

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Crease resistant finish for rayon staple fabrics. Tekst. prom. 18 no.11:27-33 N 158. (MIRA 11:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut khlopchatobumashnoy promyshlennosti (for Arkhipova). 2. Nauchnyy rukovoditel' gruppy Nauchno-issledovatel'skogo instituta organicheskikh poluproduktov i krasiteley im. K. Voroshilova (for Kryukova). 3. Glavnyy inzh. Pervoy sitsenabivnoy fabriki (for Sibirtseva). 4. Nachal'nik laboratorii Pervoy sitsenabivnoy fabriki Moskovskogo gorsovnarkhoza (for Lezzhova).

(Textile finishing) (Rayon)

SIBIRTSEV, S.L.

A 14 Conservation of the second secon

New machines, machine units and continuous production lines for textile finishing. Tekst.prom. 21 no.7845-48 Jl '61.

(MTRA 14:8)

1. Starshiy ekspert Gosudarstvennogo komiteta Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu.

(Textile finishing) (Textile machinery)

(Assembly-line methods)

ROW PROV. Test, or Instance of the control of the c

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420006-8"

3(4) AUTHOR:

Sibirtsev V. D.

SOV/6-59-8-18/27

TITLE:

A Nomograph for Corrections Necessitated by the Inclination of the Vertical Axis of the Instrument (Nomogramma dlya popravok za naklon vertikal noy osi vrashcheniya instrumenta)

PERIODICAL:

Geodeziya i kartografiya, 1959, Nr 8, pp 66-67 (USSR)

ABSTRACT:

The corrections necessitated by the inclination of the vertical revolution axis of an instrument are introduced to the measured directions according to tables calculated by means of formula (1). Since the use of these tables is complicated a nomograph has been developed which is presented and briefly explained in this article. Formula (2) is derived, from which the scale for the correction accuracy was calculated. There is 1 figure.

Card 1/1

SIBIRTSEV, Yu.M. ; PROKPCHUK, B.I.

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TO A STATE OF THE SECTION AND ASSESSED THE SECTION OF THE SECTION

Recent data on the age of kimberlites of the northeastern part of the Siberian Platform in the Kupyka Basin. Dokl. AN SSSR 148 no.2: 431-432 Ja '63. (MIRA 16:2)

Vsesoyuznyy aerogeologicheskiy trest. Predstavleno akademikom
 Shcherbakovym.
 (Kuoyka Valley—Kimberlite)

SIBIRTSEVA, L.K.

Prospects of utilizing the projected Charvak Reservoir for the fishing industry. Vop.biol.i kraev.med. no.3:150-153 *62. (MIRA 16:3)

(CHARVAK RESERVOIR (PROPOSED)—FISHERIES)

。 1. 大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大
CHICKLYMOL, A. C., <u>St. Chickly</u> , T. H., T. P. T., THOU ABLUMENT, T. A.
Methyltetra lecanoic Acid
Synthesis of 14-methoxy-3-methyltetradecancic acid and its analogs, initial substances for the preparation of macrocyclic ketones and lactones. Dokl. AN SSSR 34 No. 4, 1952.
Monthly List of Bussian Accessions, Library of Congress, Cotober 1952. Unclassified.
Monthly List of Mussian Accessions, Library Cr Songress, Control

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420006-8"

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SIBIRTSEVA, V.Ye.; BELOV. V.N.

Production of 2-octyn-1-ol from 1-hoptyne by the Reppe method.
Trudy VNIISMDV no.4:50-52 '58. (MIRA 12:5)

(Octynol)

STEIRTSEVA, V.Ye.; VIREZUB, S.I.; KUSTOVA, S.D.

Odorous substances from sclareol. Report Ho.l: Ambrial and ambroxide. Trudy VNIISNDV no.5:9-14 '61. (MIRA 14:10) (Cdorous substances) (Sclareol)

SIBIRTSEVA, V.Ye.; BELOV, V.N.

Synthesis of the methyl ester of heptenecarboxylic acid from 1-heptene by means of 2-octyn-1-ol. Trudy VNIISMDV no.5: 40-42 '61. (MIRA 14:10)

(Heptene carboxylic acid)

SIBIRTSAVA, V.Ye.; BELOV, V.N.

Acetylation of unsaturated hydrocarbons. Reaction of 1-heptyne with acetic anhydride in the presence of condensing media. Trudy VNIISNDV no.5:42-47 '61. (Heptyne) (Acetylation)

(Acetic anhydride)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420006-8"

SIBIRTSIVA, V.Ye., inzh.; KUSTOVA, S.D., kand.khimicheskikh nauk;

KOCHWAH, G.M., inzh.; IMAKAKOVITSKAYI, I.S., inzh.

Industrial method of preparing ambrial (bicyclohomofarnesal).

Masl. - zhir. prom. 27 no.12:31-32 D '61. (MIRA 14:12)

1. Vsesoyuznyy nouchno-issledovateliskiy institut sinteticheskikh
i natural'nykh dushistykh veshchestv (for Sibirtseva, Kustova).

2. Veshcuskaya kosmeticheskaya fabrika (for Kogenman,
Kakanevitskaya).

(Farnecal)

. T. 2. 1 (1612) 100 24 (2003) 14 (1822) 12 (2003) 25 (1412) 14 (1822) 14 (1824) 14 (1

SIBIRTSOVA, L.K.; KISELEVA, Ye.V.; ABDULLAYEV, M.A.

Hydrobiological characteristics of the upper Zeravshan River.

Trudy UzGU no.110:97-110 '61. (MIRA 15:3)

(Zeravshan River--Hydrobiology)

USSR/General and Specialized Zoology - Insects.

P.

Abs Jour : Ref Zhur - Biol., No 9, 1958, 40109

Author

: Sibiryak, L.A.

Inst

: Tomsk University.

Title

: The Specialization in Nutrition of the Cabbage Fly (Hyle-

mia brassicae Bouche).

Orig Pub

: Tr. Tomskogo un-ta, 1956, 142, 231-236.

Abstract

: The fly did not darage the mustard, the edible brown mushroom, and the shepherd's purse of the mustard family. The
flies visited the crushed leaves of the cauliflower, radishes, and nasturtium more often than the leaves of Brussels sprouts and late Moscow cabbage, and did not visit
the red head cabbage at all. Cabbage in the phase of four
real leaves was infected by the eggs of the fly more than

cabbage in the phases of two and seven leaves.

Card 1/2

- 42 -

BOBROV, A.R.; SIBIRYAKOV, A.A.; AKATNOV, I.N.; BIL'IM, A.E.; KOZIN, A.I., GROSMAN, I.S.; BASKAKOV, A.I.; YATSYSHIN, A.M.; TRUNOV, A.F.; KUTUZOV, N.L.; VICHIK, Ya.B.; CHUMBAROVA, A.A.; PRYAKHIN, R.I.; ZINOV'YEV, N.I.; MIKHAYIOVA, S.I.

Georgii Alekseevich Uarov. Muk.-elev.prom. 21 no.1:31 Ja 155. (Uarov, Georgii Alekseevich, 1898-1954) (MIRA 8:5)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420006-8"

```
SIBIRYAKOV, A.N. (Livov, ul. Iv.Franko, d.40, kv.5)

Cytological diagnosis of cervical caner [with summary in English].
Vop.onk. 2 no.3:346-349 '56. (MLRA 9:10)

1. Iz Livovskogo oblastnogo onkologicheskogo dispansera (glavn.
vrach - V.L.Kramchaninova, nauchn.rukovod. - doktor med. nauk prof.
G.P.Kovtunovich)

(CHRIVI NEOPLASMS, diag.
cytol., vaginal smears, statist.)

(VACINAL SMEARS, in various dis.
cancer of cervix, statist.)
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APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420006-8"

\$IBIRYAKOV, A.N. (L'vov, ul. Franko, d. 40/5)

Treatment for cancer of the lip. Nov. khir. arkh. 5:48-51 S-0 '58.

(MIRA 12:1)

1. L'vovskiy oblastnoy onkologicheskiy dispanser (manchnyy rukovoditel' reboty - prof. G.P. Kovtunovich).

(LIPS--CANCER)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420006-8"

PERMETER STORES INSPERIES SEETT OF THE SERVICE OF THE PROPERTY OF THE PROPERTY OF THE PERMETER OF THE PERMETER

evaluation of method of cytological diagnosis of corwical manual Liver, 1959, 15 pp (Min of Health ROFFR. Kazan)
State Med Inct) 250 codies (KL, 34-59, 118)

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- 109 -

SIBIRYAKOV, A.N.

Some cases of cancer of the lip in young subjects. Khirurgiia 35 no. 11:216-217 N '59. (MIRA 14:1)

(LIPS—CANCER)

3, B, Ry AKON A.P.

3-3-10/40

AUTHORS:

Sibiryakov, A.P., Dotsent, and Kovalenko, K.N., Dotsent

TITLE:

Problems of Instruction in "Machine Parts" (Voprosy prepodavaniya kursa "Detali Mashin")

PERIODICAL:

Vestnik Vysshey Shkoly, March 1957, # 3, p 48-51 (USSR)

ABSTRACT:

The authors express their dissatisfaction with the organization and method of instructing the subject "Machine Parts". They point out that the various teaching plans for this subject, vary from 14 to 102 hours, and that there is a lack of correlation between the number of hours allowed for lectures and practical training. In the authors' opinion the number of hours for both types of training should correspond. They also say that the course extends over an excessive number of semesters and claim that the teaching plans are changed almost every year while the programs remain the same continuously. They ask that instructors be assigned to lead student practical training, that a manual of instruction on "Machine Parts" be prepared, and they complain about the lack of training aids for instructional purposes.

Card 1/2

CIA-RDP86-00513R001550420006-8"

APPROVED FOR RELEASE: 03/14/2001

ACCESSION NR: AP4045261

5/0209/64/000/008/0079/0083

AUTHOR: Petrov, V.; Sibiryakov, G.

TITLE: A typical communications session

SOURCE: Aviatsiya I kosmonavtika, no. 8, 1964, 79-83

TOPIC TAGS: space flight, space communication, space center, space probe, telemetry, guided missile, remote control, satellite

ABSTRACT: In a popular and lively form, the authors describe the operations of the communications unit of a modern space center. Step by step, with many simplifications and with pertinent technical detail largely omitted, they take the reader through an operational communications center in actual contact with an orbiting manned satellite. The spacecraft in question are not specifically mentioned, and it may be assumed that the authors are attempting to present a more or less typical, composite view of the communications aspect in modern space exploration. Special attention is directed at a simple explanation of communications requirements for the various types of space probes and flights which are currently being carried out. There is some mention of specific equipment, but with almost no technical detail or information on performance. Telemetry, guidance and control come in for brief mention. Some idea of the overall structural organization cord 1/2

L 24805-66 FSS-2/EWT(1)/EWP(m)/EEC(k)-2/EWA(d) SCTB TT/DD/GW ACC NR: AP6011062 SOURCE CODE: UR/0C04/66/000/003/0008	/0009
AUTHOR: Sibiryakov, G.	87
ORG: none	
TITLE: To the nearest planets. When? On what ship?	
SOURCE: Znaniye - sila, no. 3, 1966, 8-9	
tion parachute, the morned space flight, space of the problem of flights to Mars and Venus are of opinion that a landing can best be performed using parachutes rather than retro engines. During the first phase of the landing operation, a relatively small p chute will open at supersonic velocity and stabilize the ship; during the secon phase, one or several large parachutes, acting together with retroengines, will ensure a soft landing. It is proposed that the second-phase parachutes be made special heat-resistant nylon, silk, or mylar (as used in Echo 2). The flights start from orbiting launch platforms; according to Yu. Kondratyuk's proposal—a circumlunar platform. A manned spaceship must possess one excursion module flanding on and launching from the planet, and another module, for atmospheric refree opposition of the planets has to be considered if manned flights are being	the ara- d of will from or
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New diversion of American militarists. Priroda 52 no.7:109-111
J1 '63. (Wnited States—Outer space—Exploration)

SeV/117-59-6-32/33

AUTHOR: Sibiryakov, L. Ya., Accountant General

[3] 《大西西村2000元章3 (650)2016 (650)2016 (550)2014 (460)11 (160)2014 (550)2014 (550)2014 (560)2014

TITLE: A Useful Book

PERIODICAL: Mashinostroitel', 1359, Nr 6, pp 47-48 (USSR)

ABSTRACT: This is a critical review of the book "Balans v upra-

vlenii zavodom" ("The Accounts Balance in Plant Management"), by I.A. Usatov, Mashgiz, 1958.

_ASSOCIATION: Moskovskiy transformatorny; zavod (Moscow Trans-

former Plant)

Card 1/1

ALKKSANDROVSKIY, Andrey Petrovich; KANE, M.Yu., dotsent, retsenzent; SIBIRYAKOV, L.Ye., ekonomist, retsenzent; BOGINSKIY, M.N., inzh.-ekonom., red.; TKACHUN, A.I., red.izd-va; SMIRHOVA, G.V., tekhn.red.

्रेष्ट्र विकास के अपने कार्य के प्रति के किया है। जिस्से कार्य के किया के अपने किया है। जिस्से कार्य के किया क विकास के अपने कार्य के अपने कार्य के अपने किया किया है। अपने कार्य के अपने किया किया किया किया किया किया किया

[Economic control of the work of a machinery manufacturing enterprise] Ekonomicheskii kontrol raboty mashinostroitel nogo predpriiatiia. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit. lit-ry, 1960. 263 p. (MIRA 13:12)

(Machinery industry--Accounting)

Increasing accountants labor productivity. Sots. trud 5 no.12:63-70 D 260. (Accounting)
(Iabor productivity)

SIBIRYAKOV, Leonid Yefimovich; VEYTSMAN, N.R., prof., red.; TATUR, S.K., prof., red.; SHCHENKOV, S.A., prof., red.; IVANOV, N.N., red.; TITOV, K.M., red.; NIKOL'SKIY, A., red.; TELEGINA, T., tekhn.red.

[Accounting for the utilization of materials in production]
Uchet ispol'zovaniia materialov v proizvodstve. Moskva, Gosfinizdat, 1961. 81 p.
(Accounting) (Materials)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420006-8"

ARTEMOV, Yu.M., kand. ekonom. nauk; GAL'PERIN, N.S., kand. ekon. nauk; GUBIN, B.V., kand. ekon. nauk; ZHUKOV, V.N., kand. ekon. nauk; OCHKOV, M.S. kand. ekon. nauk; OSKORDOV, V.P., starshiy ekonomist; EARNGOL'STS, S.E., dotsent, kand. ekon. nauk; SIBIRYAKOV, L.Ye.; IVANOV, N.N.; RABINOVICH, M.A., ekspert; LIPSITS, V.B., kand. ekon. nauk; VOLKOV, S.I., kand. ekon. nauk; KOROLEVA, Ye.P., aspirantka; RYUMIN, S.M., red.; SUBBOTINA, K., red.; TELEGINA, T., tekhn. red.

2008年6月18日 - 1985年 - 1

[Planning and calculating the cost of industrial production] Voprosy planirovaniia i kal'kulirovaniia sebestoimosti promyshlennoi produktsii. Moskva, Gosfinizdat, 1961. 183 p. (MIRA 14:8)

1. Moscow. Nauchno-issledovatel'skiy finansovyy institut. 2. Sotrudniki Nauchno-issledovatel'skogo finansovogo instituta (for Artemov, Gal'perin, Gubin, Zhukov, Ochkov, Oskordov). 3. Vsesovuznyy zaochnyy finansovo-ekonom. institut (for Barngol'ts).4. Glavnyy bukhgalter koskovskogo elektrozavoda (for Sibiryakov). 5. Starshiy konsul'tant Upravleniya bukhgalterskogo ucheta Ministerstva finansov SSSR (for Ivanov, Rabinovich). 6. Nachal'nik podotdela obshchikh ekonomicheskikh voprosov tsenoobrazovaniya Byuro tsen pri Gosplane SSSR (Lipsits). 7. Moskovskiy ekonomiko-statisticheskiy institut (for Koroleva)

(Costs, Industrial)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420006-8"

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SIBIRYAKOV, M. A. Col. of Med. Ser.

"BASIC PROBLEMS IN HYGIENIC SERVICE TO THE TROOPS DURING THE FIELD TRAINING".

Voyenno-meditsinskiy zhurnal No. 8, 1955, pp. 48-52.

The author speaks of the effect of heavy load and physical stress, clothing, water drinking, snaitation, and other related matters of importance during hikes and field exercises.

Translation-D527584.

SIBIRYAKOV, M.A., polkovnik meditsinskoysluzhby, kandidat meditsinskikh
nauk

Sanitary and bacterilogical examination of water and food. Voen.med.zhur. no.9:49-54 S '56.

(WATER--BACTERIOLOGY)

(FOOD ADULTERATION AND INSPECTION)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420006-8"

RATGAUZ, L.G.; SIBIRYAKOV, M.A.

Fifteenth session of the Academy of Medical Sciences of the USSR. Voen.-med.zhur. no.9:90-93 S '61. (MIRA 15:10) (MEDICINE)

86-8-21/22

AUTHOR:

Sibiryakov, S.N. Col.

TITLE:

A Book Review: "Airplane Crew in Deserted Area after Forced Landing", (Deystviya ekipazha samoleta v bezlyudnoy mestnosti) by N.K. Pyneyev; retired Maj. General of the Soviet Air Force, Moskva, 1957, published by the Ministry of Defense, USSR.

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PERIODICAL: Vestnik Vozdushnogo Flota, 1957, Nr 8, pp.90-91 (USSR)

ABSTRACT:

The reviewer starts with the following description of the author of the book: Maj. General N.K. Pyneyev, retired, served in Aviation more than 30 years. During the war he was chief of staff of the Air Army, and afterwards he served for a long time on the General Staff of the Soviet Air Force. Now, being in retirement, N.K. Pyneyev writes and edits books and actively participates in social work. Quite recently he was elected chairman of the Historical Section of the House of Aviation [and also of the Anti-aircraft Defense] which bears the name of Frunze. Further, the critic gives the following characteristic of the book: It comprises an introduction and 4 parts [195 pages]. The subject of the book is the possible action of the airplane crew after a forced landing, or parachuting in

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86-8-21/22

A Book Review: "Airplane Crew in Deserted Area after Forced Landing" (Cont.)

deserted area, far from inhabited regions and airfields. and also after forced landing or parachuting on the sea. The book also deals with the problems of search and rescue operations of an aircraft after it failed to return to its airfield. The reviewer asserts that this is the first book of this kind in Soviet Aviation Literature and it supplies the basic minimum useful information on the subject for flying personnel. In particular, the book describes the preparation of the crew before a forced landing or abandonment of the airplane and the action after landing. Even though the author of the book repeats some regulations already established by instructions concerning forced landing operations and parachute landing, the reviewer considers it useful because the commentaries of the author contain many practical suggestions. In a condensed form, the author of the book clearly presents, according to the critic, the methods of orientation in the terrain and establishing communication with the airfield, after forced landing. Analyzing the cases of forced landing or abandonment of the airplane in the Arctic, the Tayga, or in wooded.

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86-8-21/22

A Book Review: "Airplane Crew in Deserted Area after Forced Landing" (Cont.)

swampy, deserted and mountainous areas, the author of the book supplies many practical and useful recommendations as to the possibilities of survival for the crew. of the book separately describes the cases of forced landing or parachuting on the sea. The book includes a chapter which deals with the search and rescue operations undertaken by the command in case of failure of the airplane to return to its airfield. It describes the methods of the search by airplanes and by ground search parties. The reviewer believes that the book is edited handsomely and contains a large number of illustrations, which facilitate the reading of the text. But, says the reviewer, the book also contains a series of shortcomings, which are as follows: It is not correct to suggest that the crew of the airplane, before forced landing or parachute jump, should in all cases report to the air commander and await orders from him. This may be advisable under conditions of flight close to the airfield, or over the territory of a district, but not in a long distance flight. According to the reviewer the crew in disaster should send a distress signal to the nearest air force command post

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86-8-21/22

A Book Review: "Airplane Crew in Deserted Area after Forced Landing" (Cont.)

which controls or surveys the flight. Another shortcoming, according to the reviewer, is the author's recommendation with regard to the amount of equipment which a crew in distress should carry before the forced landing or abandonment of the aircraft. The reviewer believes that this amount is exaggerated and will be a hindrance, particularly in the case of an ejection seat parachute jump. The signals of distress recommended by the author of the book [by signal panels, parachute canopy and by movement of the body] should be avoided [in the opinion of the reviewer] because these signals are uniform for all aviation and are already established by competent authorities, which control flights over the territory of the USSR. In the chapter: "Forced Landing and Parachuting on Sea" the author of the book disregards such necessary problems as the order of airdrop of rescue equipment, on the basis of the calculation of the wind and drift, as the methods of directing ships and cutters to the place of disaster by the airplanes of the rescue service, and also the methods by which the areas of water covered by flaming fuel can be avoided. In the

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86-8-21/22

A Book Review: "Airplane Crew in Deserted Araa after Forced Landing" (Cont.)

chapter which deals with the search service, the author omitted the radio aids which can considerably increase the effectiveness of search service. Consequently, he indicates only the altitude of observation (500-600 m for airplanes, and 200-300 m for helicopters) necessary for visual search, whereas the altitude for search with radio aids must be at least 1000 m, and with increase of this altitude, the radius of search operations will also be considerably increased. Finally, the reviewer reproaches the author of the book for the errors in terminology [according to the reviewer, in the Soviet terminology the term "base" belongs rather to the navy, not to aviation], inaccurate explanation of the Gulf Stream currents and serious stylistic blunders. However, in total, says reviewer - the book is useful.

ASSOCIATION: Frunze House of Aviation [and Antiaircraft Defense],

Historical Section.

AVAILABLE: Library of Congress

Card 5/5

sov/147-59-2-9/20

AUTHOR:

Sibiryakov, V.A.

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TITLE:

Solution of Orthotropic Conical Shells Under an

Arbitrary External Loading by the Method of V.Z. Vlasov

(Raschet ortotropnoy konicheskoy obolochki na

proizvol'nuyu vneshnyuyu nagruzku po metodu V.Z.Vlasova)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Aviatsionnaya

tekhnika, 1959, Nr 2, pp 72-82 (USSR)

ABSTRACT:

The aim of this paper is to obtain equations giving the stresses of the elastically strained and deformed conical shells, such as are used for the nose of a rocket, for the case of non-axi-symmetrical types of loading. Using cylindrical coordinates, as shown in Fig 1, the equations of equilibrium of an element of the shell are given by Eq (1) - see Ref 1 - where:

z and 0 - the cylindrical coordinates;

r = kz - the radius of the cross-section of the shell;

k = tan - tangent of the semi-vertical angle;

 $A = \sqrt{1 + k^2} - coefficient;$

Card 1/4 N_1 and N_2 - elastic normal loadings;

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Solution of Orthotropic Conical Shells Under an Arbitrary External Loading by the Method of V.Z. Vlascv

> S and M_{2} - tangential loading and bending moment, respectively;

 Q_1 and Q_2 - shearing forces;

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X, Y and Z - components of the full load vector - the positive sense of the loads and deformations is indicated in Fig 2.

Following Ref 2, these equations are transformed by a substitution $z = z_0e^{kt}$ to Eq 2. Relating now stresses and strains (Eq 3) and expressing the strains as components of the total deformation vector (Eq 4) and considering the cases when shear deformation is absent Eq (5) and (6) are obtained, which with the additional condition $\varepsilon_2 = 0$ lead to Eq (8), being the differential equation for displacement. solved by successive approximations, the results being expressed by Bessel functions with complex arguments (Thompson functions) Eq (13) to (16). Some examples are then solved taking the external loading as shown in Fig 3 and the conical shell as shown

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Solution of Orthotropic Conical Shells Under an Arbitrary External Loading by the Method of V.Z.Vlasov

in Fig 4. Only the secondary stresses are considered, further approximations being shown by preliminary analysis to be unnecessary. In the first example, the shell is considered to be a cantilever fixed at the right (butt) end and closed at the left end by a diaphragm. Figures 5 and 6 give the results of the computations. In the second example, the shell is the same but at the free end there is either rigid rib, but with poor bending characteristics, or a massive tip welded to the shell. Figures 7 and 8 give the results of computations for this case. In conclusion it is shown that the distribution of normal stresses along a generator agrees qualitatively with the results obtained by V.F.Kut'inov (Ref 4) for a

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Solution of Orthotropic Conical Shells Under an Arbitrary External Loading by the Method of V.Z.Vlasov

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caisson of small conicity. There are ϑ figures and 5 Soviet references.

ASSOCIATION: Moskovskiy aviatsionnyy institut, Kafedra stroitel'noy mekhaniki samoleta (Moscow Institute of Aeronautics, Chair of Theory of Aircraft Structures)

SUBMITTED: January 5, 1959

Card 4/4

SIBIRYAKOV, V. A., Cand Tech Sci -- (diss) "Calculation of orthotropic shells under the effect of temperature and arbitrary external load." Moscow, 1960. 9 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Order of Lenin Aviation Inst im Sergo Ordzhonikidze); 160 copies; price not given; (KL, 17-60, 159)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001550420006-8"

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AUTHOR:

Sibiryakov, V.A.

TITLE:

The Determination of the Temperature Stresses in a

Conical Shellylo

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Aviatsionnaya

tekhnika, 1960, Nr 1, pp 72-82 (USSR)

ABSTRACT: At the basis of the calculation is the idea of Professor V. Z. Vlasov that the internal stresses in a thermoelastic

free shell can cause only that part of the temperature loading which corresponds to the bimoment state of the The following assumptions are made: 1) deformation takes place in the elastic domain; 2) general and local losses of stability are absent; 3) Young's modulus and the coefficient of linear expansion of the material are constant; 4) the temperature through the thickness of the shell is constant; 5) the law of heating of the sections along the length of the shell is unchanged, only the "amplitude of heating" changes. The stressed and

deformed state of an orthotropic conical shell is Card 1/3 determined on the basis of the semimomentless shell theory.

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The Determination of the Temperature Stresses in a Conical Shell

The equilibrium equation and Hook's law are supplemented by equations relating the full deformation with the components of the vector of the full displacement and equations linking the full elastic and temperature deformations, in accordance with F. Neyman's hypothesis. The equations are simplified if the assumption is made that the contour of the transverse section of the shell is inextensible. Trigonometric series are assumed for the forces, moments, displacements and the temperature. In this way the partial differential equations reduce to a single fourth order ordinary differential equation, which is solved by the method of successive approximations. Since an error occurred in the earlier paper (Ref 3), the full system of equations for the constants of integration are given. The distribution of the normal stresses along the generator for which & (cylindrical coordinate) is zero is considered for various temperature distributions. The effect of the

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S/140/62/000/004/008/009 C111/C333

AUTHOR:

Sibiryakov, V. A.

TITLE:

On the solution of a differential equation with variable

coefficients

PERIODICAL: Vysshiye uchebnyye zavedeniya. Izvestiya. Matematika,

no. 4, 1962, 143-145

TEXT:

In order to solve the equation

$$\frac{d^4 v}{dt^4} - (k^2 + be^{-2kt}) \frac{d^2 v}{dt^2} + ae^{-2kt} v = 0$$
 (1)

appearing in the theory of the conic basins, one writes down the auxiliary equation

$$v_n^{IV} - k^2 v_n'' = + (bv_{n-1}'' - av_{n-1}) e^{-2kt}$$
 (2)

and puts its right linear part equal to zero. Out of this comes the initial approximation v for the general solution

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On the solution of a differential ... 5/140/62/000/004/008/009 C111/C333

 $v = \sum_{i=1}^{\frac{r}{2}} c_i F_i$ of (1). This v_0 is substituted into the right hand, and corresponding particular solution of (2) gives together with v_0 the next approximation for v. This way one states that there is

$$F_1 = 1 + \sum_{1}^{\infty} \frac{(-1)^n n^{4n} e^{-2nkt}}{2n! (2n+1)!} \prod_{1}^{n} H_1^{2m-2},$$

$$F_2 = \frac{p^4}{2} (1 - r) \left\{ e^{-kt} + 2 \sum_{1}^{\infty} \frac{(-1)^n p^{4n} e^{-(2n+1)kt}}{(2n+1)! (2n+2)!} \prod_{1}^{n} H_1^{2m-1} \right\},\,$$

$$F_3 = ktF_1 + \sum_{1}^{\infty} \frac{(-1)^n \, p^{4n} \, e^{-2nkt}}{2n \, ! \, (2n+1) \, !} \, \left[\sum_{1}^{n} \frac{I_2^{2n}}{I_1^{2n}} \cdot \prod_{1}^{n} H_1^{2m-2} \right] +$$

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On the solution of a differential . . \$5/140/62/000/004/008/009

$$+4r\sum_{\frac{1}{2}}^{\infty}\frac{(-1)^{n}p^{4n}e^{-2nkt}}{2n!(2n+1)!}\sum_{\frac{1}{2}}^{n}\frac{(n-1)}{H_{1}^{2n-2}}\cdot\prod_{\frac{1}{2}}^{n}H_{1}^{2m-2},$$

$$F_4 = ktF_2 + e^{kt} + (1-r)\sum_{1}^{\infty} \frac{(-1)^n v^{4(n+1)} e^{-(2n+1)kt}}{(2n+1)!(2n+2)!} \times$$

$$\times \left[\sum_{1}^{n} \frac{I_{2}^{2n+1}}{I_{1}^{2n+1}} + 2r \sum_{1}^{n} \frac{(2n-1)}{H_{1}^{2n-1}}\right] \prod_{1}^{n} H_{1}^{2m-1}.$$

where the notations

$$I_1^m = \frac{1}{m^2(m^2-1)}$$
, $I_2^m = \frac{2(2m^2-1)}{m^3(m^2-1)^2}$, $H_1^m = (1-m^2r)$, $r = \frac{bk^2}{a}$, $p^4 = \frac{a}{k^4}$ (4)

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On the solution of a differential ...

are used. If b = 0, then the F_i can be represented by Thomson functions.

ASSOCIATION: Moskovskiy aviatsionnyy institut im. S. Ordzhonikidze

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(Moscow Aviation Institute im. S. Ordzhonikidze)

SUBMITTED: July 29, 1959

Card 4/4

AUTHOR: Bershteyn, I.L. and Sibiryakov, V.L.

TITIE: Phase Method of Stabilization of Micro-wave Oscillators.

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(Fazovaya stabilizatsiya mikrovolnovykh generatorov)

(Letter to the Editor)

The state of the s

PERIODICAL: Radiotekhnika i Elektronika, 1957, Vol.II, No.7, p. 944 (USSR).

ABSTRACT: An experimental investigation of a klystron generator operating at 3.3 cm wavelength was carried out. The source of the stabilising oscillations was a quartz crystal oscillator with a frequency-multiplier operating at 450 Mc/s. The twentieth harmonic of this frequency was used to produce 60 Mc/s beats with the klystron frequency. The beats were amplified and then combined in a balanced detector with a separate local oscillator operating at 60 Mc/s. The output voltage of the balanced detector was amplified and applied to the reflector of the klystron. The above system permitted the stabilisation of the klystron over a frequency range of about 5 Mc/s. The power of the stabilising signal was about 0.4 µW. There are 2 references, 1 of which is Slavic.

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5 BIRYAKOV V.L.

109-3-2-21/26 AUTHORS: Bershteyn, I.L. and Sibiryakov, V.L.

TITLE: Phase-type Automatic Frequency Adjustment in Microwave

Oscillators (Fazovaya avtopodstroyka chastoty generatorov

santimetrovykh voln)

Radiotekhnika i Elektronika, 1958, Vol.III, No.2, pp. 290 - 291 (USSR) PERIODICAL:

ABSTRACT: The problem was investigated experimentally by means of the equipment shown in the figure on p.290. This employed a quartz stabilised oscillator operating at 75 Mc/s; this was followed by two frequency multiplier stages producing a frequency of 450 Mc/s. The resulting signal was applied to a germanium diode and its twentieth harmonic, having a frequency of 9 000 Mc/s, was used as the standard synchronisation signal. The synchronising power was of the order of 1 μW and the frequency of the synchronised klystron was about 75 Mc/s lower than that of the standard. The standard signal and the klystron oscillations were applied to the input of a balanced detector; an intermediate frequency of 75 Mc/s, obtained at the output of the detector, was amplified and applied to another balanced detector, where it was mixed with the frequency of the quartz oscillator. The detector was followed by a single-Cardl/2 stage video-amplifier, whose output was applied to the reflector